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AZUMA TOKIHISA;
KAWACHI MASAHIRO;****Assignee: NIPPON MUKI CO LTD**
[News, Profiles, Stocks and More about this company](#)**Published / Filed: 1999-01-22 / 1997-06-26****Application Number: JP1997000185961****IPC Code: H01M 2/16;****Priority Number: 1997-06-26 JP19971997185961****Abstract:**

PROBLEM TO BE SOLVED: To prevent the short-circuit resulted from the compression of an electrode plate grid edge in battery assembling by specifying the compression breakdown strength of the separator of a sealed lead-acid battery.

SOLUTION: The compression breakdown strength of a separator is set to 4 kgf or more, and the piercing strength is also set to 0.4 kgf or more. Thus, the short-circuit resulted from the compression of an electrode plate grid edge in battery assembling can be prevented, the short-circuit resulted from the piercing of the projection of the electrode plate in battery assembling can be prevented, and the short-circuit generating ratio in assembling process can be reduced. It is also preferred to mix 5 wt.% or more of a monofilamentous synthetic fiber and 10 wt.% of more of a pulp-like organic fiber to the organic fiber of the separator, and a separator having a compression breakdown strength of 4 kgf or more and a piercing strength of 0.4 kgf or more can be provided without using large quantities of the organic fiber. The mixing quantity of the organic fiber is suitably set to 50 wt.% or less.

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